

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP2004/051280

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 C12N9/00 C12N9/52

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 C12N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, EMBL

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6 582 947 B1 (KARLSSON ANNA ET AL) 24 June 2003 (2003-06-24)	1-55
X	Table 3 and claim 1	3
T	PISKUR J ET AL: "Animal deoxyribonucleoside kinases: 'forward' and 'retrograde' evolution of their substrate specificity" FEBS LETTERS, ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL, vol. 560, no. 1-3, 27 February 2004 (2004-02-27), pages 3-6, XP004492481 ISSN: 0014-5793 the whole document	1-15

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the International filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the International filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the International search

13 October 2004

Date of mailing of the International search report

03/11/2004

Name and mailing address of the ISA

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	KUNISHIGE I ET AL: "Suicide gene therapy for human uterine adenocarcinoma cells using herpes simplex virus thymidine kinase" MEDLINE, 1 January 1999 (1999-01-01), XP002256196 ABSTRACT	23-55
Y	----- DATABASE EMBL 'Online! 17 February 2003 (2003-02-17), XP002299221 retrieved from EMBL Database accession no. CB251541 the whole document	1-15
X	----- KNECHT, W ET AL.: "Mosquito has a single multisubstrate deoxyribonucleoside kinase characterised by unique substrate specificity." NUCLEIC ACIDS RESEARCH, vol. 31, no. 6, 15 March 2003 (2003-03-15), pages 1665-1672, XP002299350	1-3,7,8, 10-12,15
Y	Abstract, materials and methods and Discussion & DATABASE UNIPROT Multisubstrate deoxyribonucleoside kinase 1 June 2003 (2003-06-01), Database accession no. Q86LB8 abstract	1-15
A	----- WO 01/88106 A (MUNCH PETERSEN BIRGITTE ; PISKUR JURE (DK); KNECHT WOLFGANG (DK)) 22 November 2001 (2001-11-22) the whole document -----	1-55

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## Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 33-50  
because they relate to subject matter not required to be searched by this Authority, namely:  
Although claims 33-50 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.  
☐ No protest accompanied the payment of additional search fees.

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 6582947	B1	24-06-2003	AU 2018500 A EP 1137764 A1 JP 2002532090 T WO 0036099 A1	03-07-2000 04-10-2001 02-10-2002 22-06-2000
WO 0188106	A	22-11-2001	AU 6007301 A CA 2408530 A1 CN 1429268 T WO 0188106 A2 EP 1283874 A2 JP 2003533225 T NZ 522216 A US 2004072168 A1	26-11-2001 22-11-2001 09-07-2003 22-11-2001 19-02-2003 11-11-2003 28-05-2004 15-04-2004